Portland Harbor Superfund Site Draft Feasibility Study

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Content slide 1
Portland Harbor Superfund Site
•Nearly \$100 million for studies,
investigation, and data analysis over 10
years
•Farly cleanups have occurred in some

•Early cleanups have occurred in some areas

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Sampling results through 2010EPA will determine final cleanup

What we know
•Contamination generally higher in
deeper sediments than surface layer
•Contamination generally higher near
shore than in navigation channel
•Natural recovery occurring mainly
because cleaner sediment from
upriver is moving into the harbor

What we know

•Sediments contaminated mainly from historical use of river

•The potential risk from four chemical groups generally overlap the risks from other chemicals

•Those four chemical groups are:

-PCBs

-Di oxi ns/furans

-The pesticide DDT and its related breakdown products

-PAHs (polycyclic aromatic hydrocarbons)

·Contaminants also exist upstream

<sup>¥</sup> Content slide 1 Surface Sediment PCBs

\*What we know

•Risk mostly from regularly eating local fish

(bass, carp)

•No significant risk from swimming or beach use and eating migrating fish (salmon)

LWG FS Presentation.txt •Health advisories on fish consumption throughout all of Willamette River and not just Portland Harbor Content slide 1 Draft Feasibility Study Options •El even al ternatíves -No Action (required by law to evaluate)
-5 are removal focused (dredging)
-5 are integrated (still involve significant dredgi ng) Assumes sources will be controlled Content slide 1 Remedial Action Levels ♀ Content slide 1 Sediment Cleanup Areas K: \LWG\2012\Executive Summary\Final Assets\Figure 10.jpg Content slide 1 Draft Feasibility Study Options •All adequately reduce risks to human health and environment (except the No Action Alternative) •Differences - cleanup action levels, active cleanup time, impacts, use of technology, and cost Content slide 1 Cleanup Methods

Combinations of methods used in different areas of the Site

-Dredgi ng -Cappi ng

-Treatment - in place or after dredging

-Innovative Technologies

-Monitored Natural Recovery -Enhanced Monitored Natural Recovery

Content slide 1 Al ternatives ♀ Content slide 1 blank base slide 1 slide2 Bi slide3 Br slide4 Ci

## LWG FS Presentation.txt

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slide5 Cr
slide6 Di
slide7 Dr
sI i de8Ei
slide9Er
slide10Fi
slide11Fr
PCB Sediment Concentration Over Time ♀
Content slide 1
Sediment Cleanup Areas K:\LWG\2012\Executive Summary\Final Assets\Figure 10.jpg
Total Site: 2,172 Acres ♀
Content slide 1
Superfund Cleanup Criteria
2 Threshold
•Protect human health and the environment
•Comply with federal and state laws
5 Bal ancing
•Long-term effectiveness and permanence

    Reduce toxicity, mobility or volume through

treatment
•Short-term effectiveness
• Implementability
•Cost
2 modifying

    State acceptance

    Community acceptance

DRAFT
FS
PROPOSED
PLAN
Content slide 1
Alternatives Comparison without line
with line
Content slide 1
Best Scoring Alternatives ♀
Content slide 1
Next Steps
•EPA reviews draft Feasibility Study
•EPA prepares Proposed Plan
• Public Comment on Proposed Plan
•EPA issues Record of Decision
•Agreements for cleanup implementation

    Sources controlled

•Cleanup actions begin

    Monitoring over many years
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## LWG FS Presentation.txt

Content slide 1 Contacts

- EPA
- -www. epa. gov/regi on10/portl andharbor
- LWG
- -www. I wgportl andharbor. org
- •Portland Harbor CAG -www.portlandharborcag.info

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